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(54) **Adaptive equalizer with DC offset compensation**

(57) A method for correcting DC offsets in a multi-stage amplifier includes determining (806, 808) a DC offset imparted by a multi-stage amplifier to an input signal. The method further includes applying a correction voltage (802, 804, 810, 812) to a plurality of selected stages in the multi-stage amplifier. The total correction voltage applied substantially negates the DC offset imparted by the multi-stage amplifier.

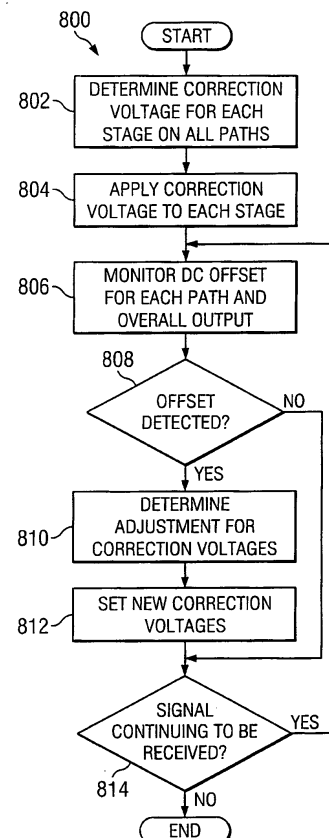


FIG. 8

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EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 2004/012439 A1 (CHEN WEI-YUNG WAYNE ET AL) 22 January 2004 (2004-01-22) * paragraph [0023] - paragraph [0026]; figure 3 *	1,2,5, 12,15,20	INV. H03F1/34
X	US 6 252 454 B1 (THOMPSON KARL ERNESTO ET AL) 26 June 2001 (2001-06-26) * column 5, line 8 - line 53; figure 2a *	1,5,12, 15,20	
A	US 4 987 327 A (FERNANDEZ ET AL) 22 January 1991 (1991-01-22) * column 2, line 11 - column 4, line 2; figure 2 *	6,8,17	
A	US 2003/011426 A1 (CASPER BRYAN K) 16 January 2003 (2003-01-16) * paragraph [0019] - paragraph [0022]; figure 1 *	8,17	
			TECHNICAL FIELDS SEARCHED (IPC)
			H03F
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 27 June 2006	Examiner Lorenzo, C
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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27-06-2006

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004012439 A1	22-01-2004	NONE	
US 6252454 B1	26-06-2001	NONE	
US 4987327 A	22-01-1991	NONE	
US 2003011426 A1	16-01-2003	US 6420932 B1	16-07-2002
		US 2003001667 A1	02-01-2003
		US 2003016091 A1	23-01-2003